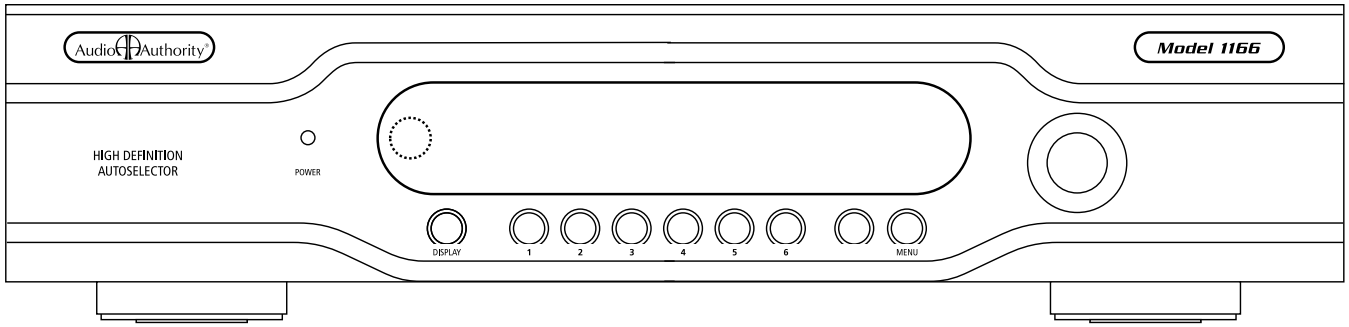
Installation and Operation



Model 1166
High Definition DVI/Component Video AutoSelector™

Model 1156
High Definition Component Video AutoSelector™

Audio Authority®

Installation and Operation Manual

Model 1166
High Definition DVI/Component Video AutoSelector™

Model 1156
High Definition Component Video AutoSelector™

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800-322-8346

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Warnings

To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.

The exclamation point symbol alerts users to important operating and maintenance instructions in this manual.

- Read these instructions before installing or using this product.
- This product must be installed by qualified personnel.
- Do not open the cover—there are no user-serviceable parts inside.
- Do not expose this unit to excessive heat.
- Install only in dry, indoor locations.
- Do not obstruct the ventilation slots.
- Clean the unit only with a dry or slightly dampened soft cloth.

Getting Started

- Register your purchase at www.audioauthority.com/register to activate your warranty and for future upgrade notification. Write your registration password on the back cover of this manual.
- Read these instructions
- Unpack the product and its accessories
- Install batteries in the infrared remote control
- Connect associated equipment (see detailed instructions in the Installation Section and Hookup Diagrams)
- Connect the product to a suitable power outlet using only the power supply furnished
- Perform desired setup operations

TIP: To access the menu, press and hold the knob, and touch MENU (or press MENU on the remote).
TIP: To perform password operations, enter "236" on the front panel or remote control.

General Information

The Model 1166/56 High Definition AutoSelector™ complements a wide array of home theater signal sources, video displays and audio systems. It performs selection of up to six input sources by infrared control, by a unique AutoSelect™ process, RS-232 signals, or by manual selection. These inputs may be DVI (1166 only) or component video and digital or analog audio, or combinations of these signal types, all delivered to the viewer with their original vividness, brightness and clarity. A special feature of the Model 1166 is its built-in Component-to-DVI converter, which enables the DVI output to be active regardless of the type of video available at the selected input.

This manual addresses Model 1166 and 1156 generally but also includes references to DVI capability which is available only on the 1166. If you are installing a Model 1156, ignore the references to DVI.

In residences, the functionality of Model 1166 can be greatly enhanced by adding one or more Model 1176 High Definition Cat 5 Matrix Routers, each of which allow up to six remote component video outputs with digital and analog audio. Remote Wallplates (Model 9878) allow individual source selection by IR remote control; the output of each Wallplate can also be controlled by the Model 1166. The 1176 delivers component video, digital audio, and analog audio to each 9878 Wallplate over two Cat 5 cables.

Professional venues, such as clubs and restaurants, can benefit by using Model 1176 to send selectable video and/or audio to remote locations; but in applications where all displays carry the same content, the Model 1170 High Definition Cat 5 MultiDriver™ Expander drives multiple Wallplates with the same program content as the 1166 main component video output.

Carton Contents

- Model 1166 or 1156 High Definition Video AutoSelector™
- 18-volt Power Supply
- Model 1105 Infrared Remote Control with batteries
- User Manual
- Flash memory card with operational software and setup files (installed in 1166/56 flash card port)

Other Materials You May Need

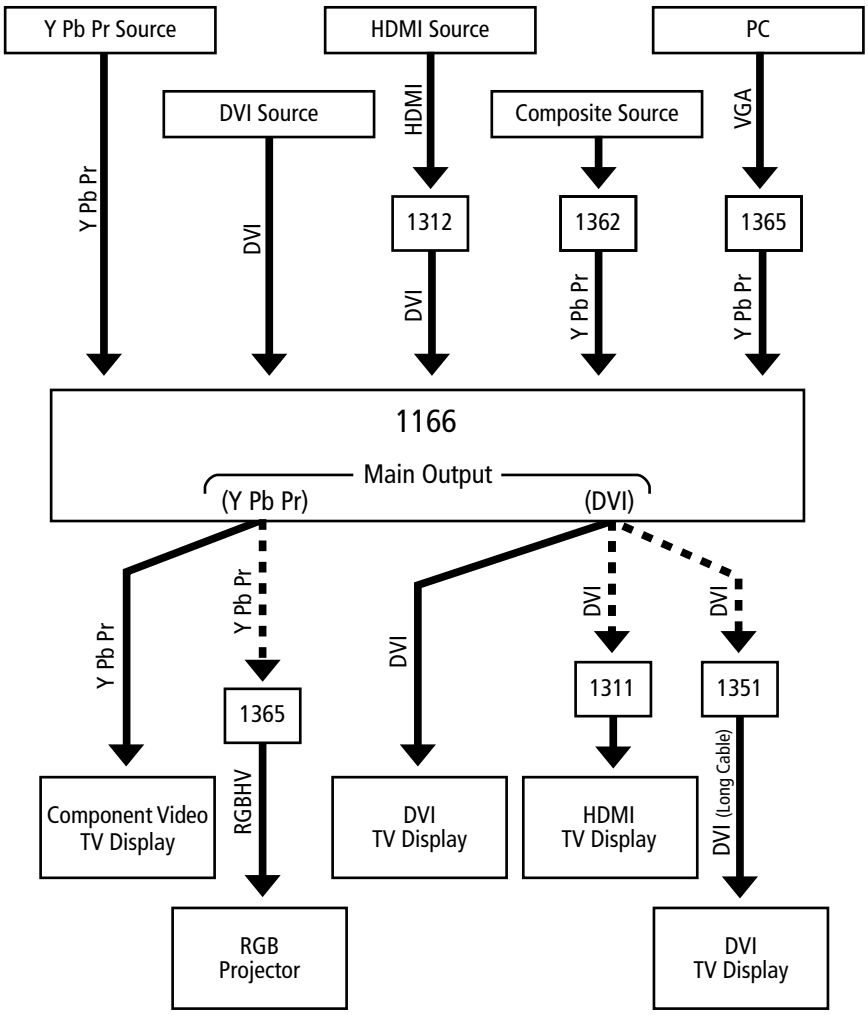
- RCA and optical patch cords
- 3.5mm patch cords
- Infrared emitter or blaster
- Infrared remote control receivers—for Model 9878
- Cat 5e/6 cable and plugs—for Models 1170 and/or 1176

Suggested Accessories

- Model 1166PC Setup Application (available as a free download from www.audioauthority.com).
- Model 1170 High Definition Cat 5 MultiDriver™ Expander—each expander allows up to six Model 9878 Wallplates to deliver the same content as the Model 1166 output. Maximum 36 Wallplates per system.
- Model 1176 High Definition Cat 5 Matrix Router—each Router allows up to six Model 9878 Wallplates to select any one of the six source inputs to Model 1166. Maximum 36 Wallplates per system.
- Model 9878 Cat 5 HDTV Connection Plates (Wallplates)—allow Model 1170, 1171, or 1176 outputs to be widely distributed via two Cat 5 cables per Wallplate.
- Model 1192 Rack Mounting Adapters—1156/1166 fit 19-inch spacing on EIA rack centers (2 Rack Units).
- Model 1191 Rack Mounting Adapters—1170/1176 fit 19-inch spacing on EIA rack centers (1 Rack Unit).
- Model 1108 Multi-source IR Router. Plug into the IR Out jack to allow multiple sources to be individually addressed by 9878 Wallplates. For more detail, download the 1108 manual from our website.
- Model 802-567 4-port bus cable—for up to 3 expanders or routers.
- Model 1311 DVI+Digital Audio to HDMI Converter—active converter with HDCP for HDMI TV displays.
- Model 1312 HDMI to DVI+Digital Audio Converter—active converter with HDCP for HDMI sources.
- Model 1351 DVI Repeater—for long DVI cable runs.
- Model 1362 Up converter scaler—converts composite or S-video signals to component video.
- Model 1365 Video Converter—converts Y Pb Pr to RGBHV or VGA to Y Pb Pr.
- Audio Authority DVI and HDMI high quality connecting cables and DVI and HDMI adapters.

Video Converter Illustrations

Many possibilities exist for adapting or actively converting various signal types to work with the 1166. Refer to the accessory descriptions above. Dotted lines show alternate configurations.

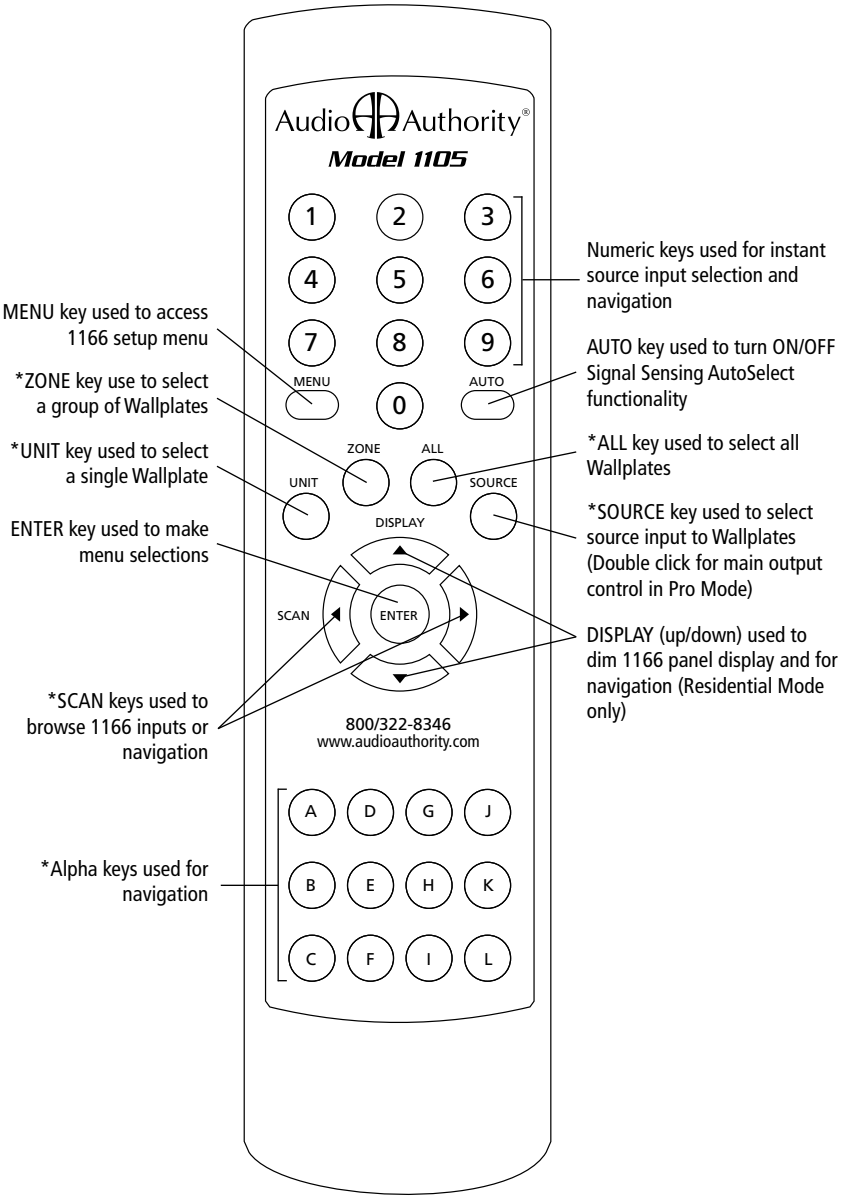


Panel Descriptions

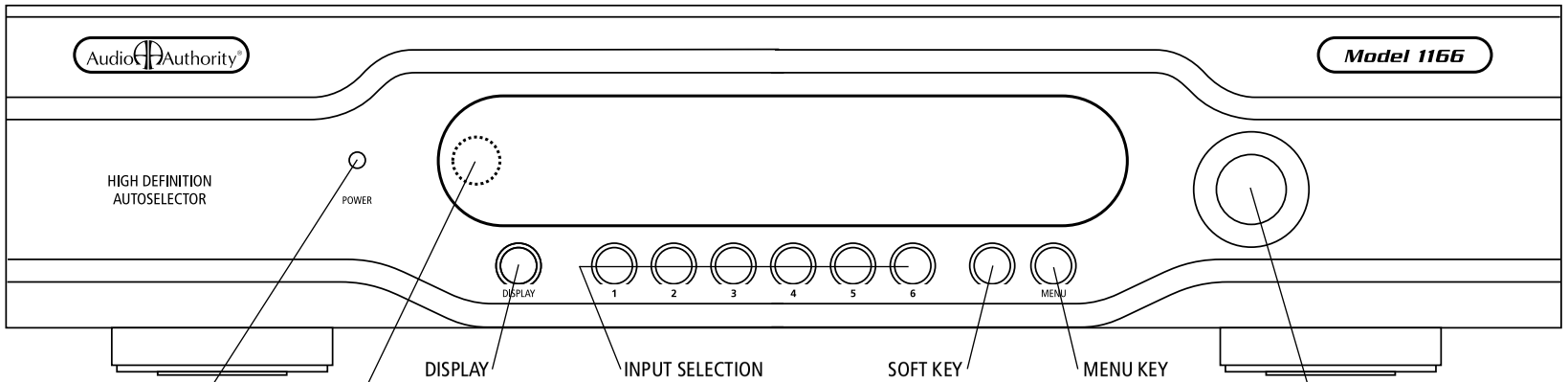
Shown on the opposite page are the front and back views of the 1166. The 1156 is the same, but without DVI connections. Below is a view of the 1105 Infrared Remote Control. Each Model 1156 or 1166 includes one 1105; additional 1105 Remotes may be purchased separately.

Model 1105 IR Remote Control

This full featured remote control is useful in basic AutoSelector installations for switching source signals to the main output, but it also can be used in an 1176 application to switch source signals to individual Wallplate outputs.



* These keys only work when an 1176 Matrix Router is part of the system.



POWER LED
When lit, power is on

IR WINDOW
Receives infrared commands

DISPLAY
Press to dim the display (four brightness levels)

INPUT SELECTION
Press a key to switch the corresponding input to the main output

SOFT KEY
Performs the task indicated on the display (usually AUTO on or off)

MENU KEY
Touch while holding the knob to enter the setup menu

NAVIGATION AND ENTER KNOB
Turn knob to navigate on-screen menus, press knob to enter (press and hold knob and touch MENU to enter setup mode)

DVI VIDEO INPUT*
DVI input port for position 1

DIGITAL AUDIO INPUT JACKS
Optical or coaxial inputs for position 1 (connect only optical OR coaxial for each source)

DVI VIDEO MAIN OUPUT*
DVI input signals and converted YPbPr input signals are available on the DVI output

DIGITAL AUDIO OUTPUT JACKS
All digital audio inputs are available at the coaxial and optical outputs

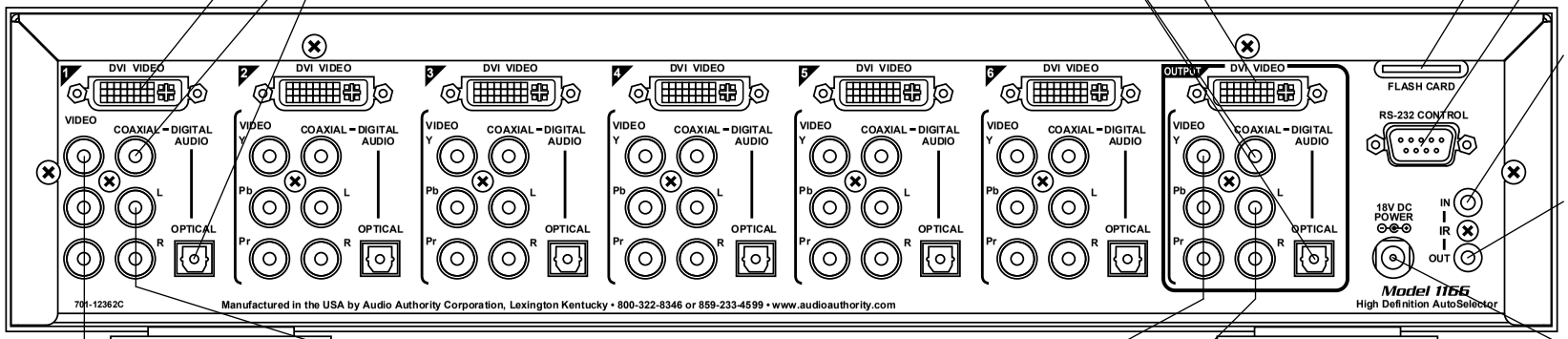
FLASH CARD PORT
Store settings or upgrade firmware

RS-232 PORT
Control 1166 behavior using 3rd party system

INFRARED IN
Control 1166 behavior using 3rd party remote control signals

INFRARED OUT
Used only with 1170 or 1176 and Wallplates with IR receivers installed

POWER JACK
Use only the included 18V power supply



LEFT/RIGHT ANALOG AUDIO JACKS
Connect to every source for proper Signal Sensing AutoSelection functionality

COMPONENT VIDEO INPUT
YPbPr input port for position 1 (these signals are automatically converted to DVI)

COMPONENT VIDEO JACKS
Component video input signals are available on YPbPr jacks

LEFT/RIGHT ANALOG AUDIO OUTPUT JACKS
Left and right audio input signals are available on these output jacks

*DVI capability is only available on the Model 1166.

Installation

You may wish to consult with a qualified custom electronics installer if you are inexperienced with DVI, HDMI/HDCP, component video connections and compatability. If you are installing 1170 or 1176, you should be familiar with Cat 5 cable termination tools and techniques.

Note: This manual addresses Model 1166 and 1156 generally but also include references to DVI capability which is available only on the 1166. If you are installing a Model 1156, ignore the references to DVI.

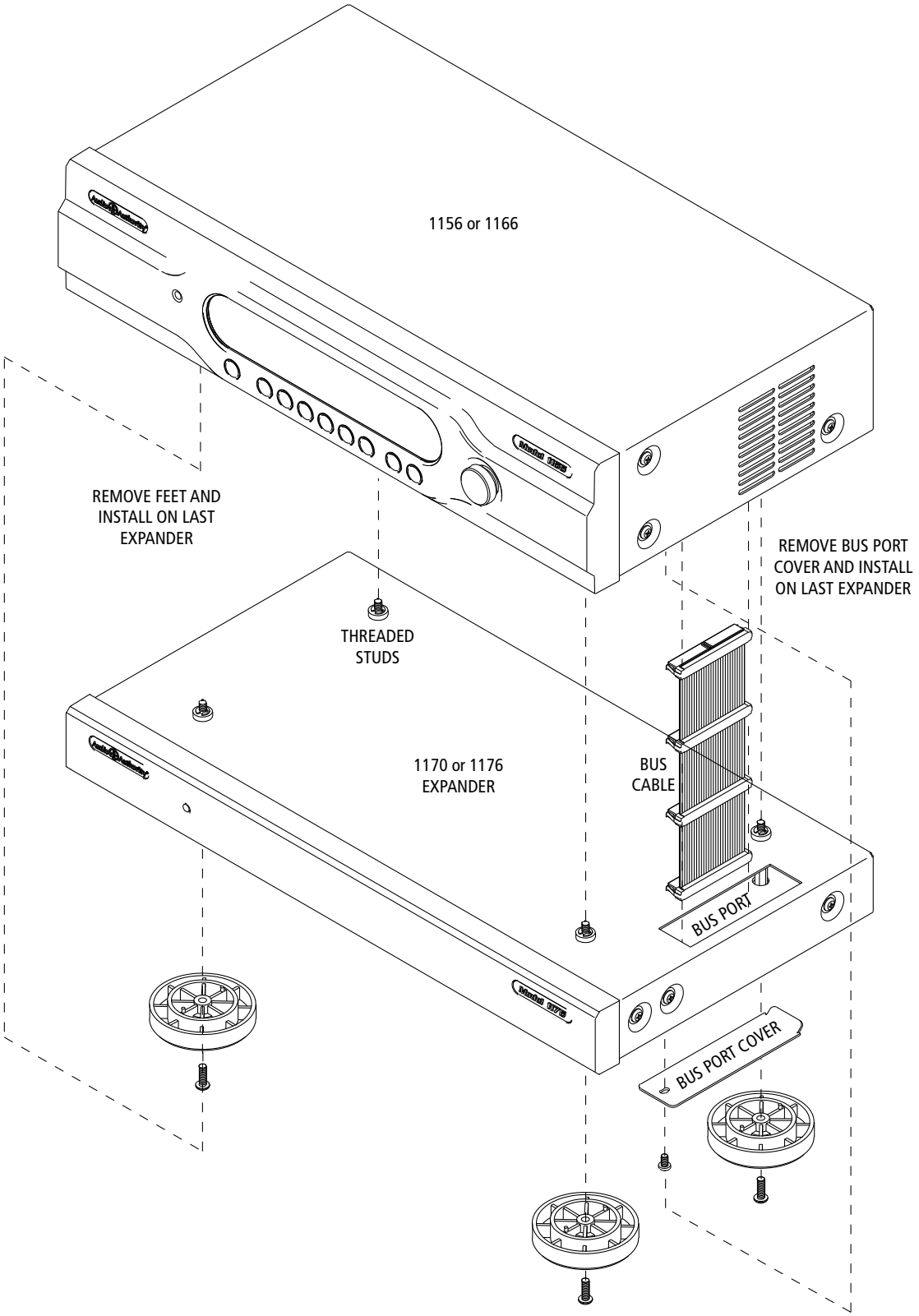
Note: Instruction steps calling for IR learning or other setup can be performed ahead of time using the Model 1166PC Setup Application.

1. **Pre-Setup.** If the setups were previously constructed using the Model 1166PC Setup Application, plug the Flash Card containing the setup file into the memory slot in the upper right corner of the back of the Model 1166. Temporarily apply power, go to the SETUP menu, choose SAVE/LOAD FILE, and follow the instructions on the screen. The 1166PC setup application is available as a free download from www.audioauthority.com.

2. **Stacking.** Follow these steps if you are installing this product in a stack containing Models 1170, 1176 or other Audio Authority stacking models.
   a. Lay the Model 1166 upside down on a protective surface, such as a terrycloth towel.
   b. Remove the four feet and the bus port cover and save them and their attaching screws for later use.
   c. Plug one end of the bus cable (purchased separately) into the connector visible through the bus port—apply enough pressure with fingers or a wooden or plastic tool to assure that the plug is completely seated. This bus cable carries component video, digital audio and analog audio signals from the 1166/56 to the 1170 or 1176 for distribution to 9878 Wallplates.
   d. Turn the next product to be stacked upside down (e.g. Model 1170 or 1176), thread the bus cable through its bus ports, and engage its four threaded studs with the four threaded holes in the Model 1166 formerly occupied by the feet.
   e. Tighten the hex head screws in the bottom of the stacking product in sequence a few turns each, until they are all snug.
   f. Plug the bus cable into the connector like before. Continue this stacking procedure until all units have been stacked. Always plug the last connector of the bus into the bottom unit, pushing any excess cable into the empty space inside the unit. View the bus through the bus port to be sure all plugs are fully seated. To disconnect a bus plug, squeeze the side latches.
   g. Install the bus port cover and feet you removed from Model 1166 on the bottom unit and turn the stack right side up.
   h. Set the Address dial on each Model 1176 (Model 1170 does not require addressing)--set the uppermost Model 1176 address to “A”, the next one to “B”, and so on.
   i. Temporarily plug in the power supplies of all units to a plug strip so that you can turn them all on at one time. The opening screen on the Model 1166 display will indicate that the unit is powered and how many Model 1176s have been recognized. If this number is different from the number actually present, look for the bus not being fully plugged into a unit or a unit incorrectly addressed. **Model 1170s *are not*** indicated on the opening screen.

Stacking Components

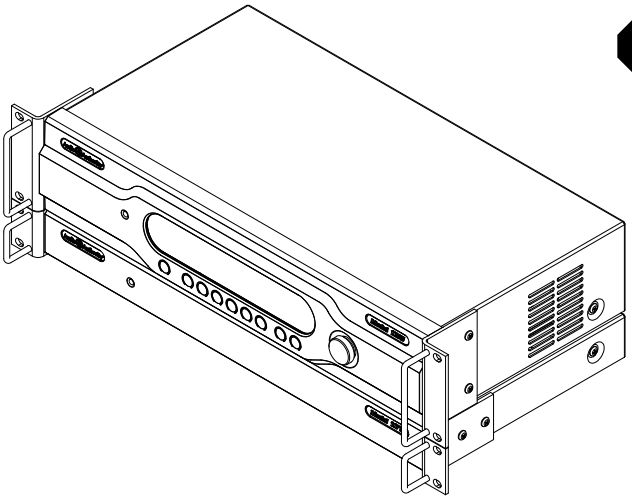
This diagram shows the parts and locations for stacking components. The procedure must be performed with the units upside down.


1156 or 1166
REMOVE FEET AND INSTALL ON LAST EXPANDER
REMOVE BUS PORT COVER AND INSTALL ON LAST EXPANDER
THREADED STUDS
1170 or 1176 EXPANDER
BUS CABLE
BUS PORT
BUS PORT COVER

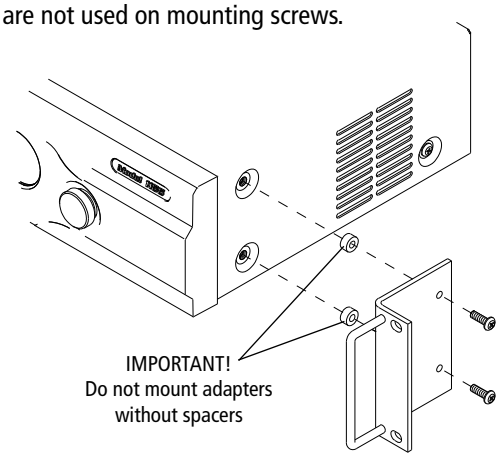
3. **Rack Mount Adapters.** Do these steps if you are installing this product or a stack of products in a 19-inch equipment rack.

   a. Remove the cover screws adjacent to the front panel of each product and use them to mount Model 1192 (for Model 1156/66) or Model 1191 (for Model 1170/76) rack adapters. Be sure to place a spacer under the adapters at every screw location.

   b. Use a straightedge to line up rack adapters on a stack of product before tightening the screws.



CAUTION! This product will be damaged if spacers are not used on mounting screws.



4. **Setting in Place.** Place the Model 1166 on its shelf or in the rack. If rack mounting, secure it to the rails with the screws supplied with the rack adapter kits.

5. **Model 1156 and 1166 Hookup.** Connect sources, receiver and monitor in these steps.

   a. If the AutoSelect feature is to be used, decide now if any devices should be connected directly to the TV or receiver, particularly if the sources include a device that can record (see previous page).

   b. Connect each source unit to its respective set of Model 1166 input jacks.

   c. Use good quality cable and keep the runs under 6 feet if possible, especially for DVI and component video connections—Audio Authority cables are recommended.

   d. In the event of very long DVI cable runs, add an Audio Authority Model 1351 Repeater. Please see the system hookup diagrams in the back of this manual for examples.

   e. If a source has HDMI output, add an Audio Authority Model 1312 HDMI-to-DVI Converter.

Recording Devices and AutoSelect™

AutoSelect is an exclusive Audio Authority feature designed to automatically select the active input. The Model 1166 uses input signal changes to determine which one of the six inputs to select. AutoSelect is ideal if most components will not be powered at one time, because the 1166 looks for newly appearing inputs as one of its decision criteria.

However, another factor must also be considered–you will generally want to keep any source that records, such as a personal video recorder or PVR, powered up so it can record even when not playing. When a PVR begins to record, it may fool the Model 1166 into selecting the PVR input, interrupting the device you actually intended to watch. If this happens in your system, the one way to avoid the problem is to connect the outputs of a PVR directly to a home theater receiver or television instead of the 1166. The PVR can then be chosen with infrared-controlled manual selection when desired.

High output noise level or other signal deficiencies from a source may cause the Model 1166 AutoSelect logic to fail. If this happens frequently, the best solution is to deactivate AutoSelect and use the Model 1105 IR Remote (included). You may also teach the Model 1166 the desired codes of the IR remotes belonging to the sources.

f. Connect either, but NOT BOTH optical and coaxial digital audio inputs. Connect all the other signals available from the source unit: DVI, component video and analog audio.

g. If a source has HDMI but not DVI output, connect Audio Authority Model 1312 between the source and its DVI and digital audio jacks on the Model 1166. *NOTE! Certain input signals may be used by the Model 1166 for AutoSelect, even though they are not required by the monitor or audio system. Connect every cable (but only one type of digital audio) to assure proper AutoSelect functionality.*

h. Connect the television monitor and audio system to the Output jacks, using DVI only, or both DVI and component video ports if desired. Use either optical or coaxial digital audio outputs, but NOT BOTH. Use the analog audio output only if the audio system lacks a digital audio input. If the TV monitor requires HDMI, connect an Audio Authority Model 1311 DVI-to-HDMI Converter. *NOTE! Some HDMI displays will not work correctly with a DVI signal converted to HDMI after a switching device.* If your display works properly at first, but fails to work after being turned off and then on, contact the factory for assistance.

6. **Model 1170 or 1176 Hookup.** If Wallplates are a part of this system, connect them to the stack now.

   a. Pull two lengths of good quality Category 5e or 6 UTP cable from the main system to each Wallplate location. Good quality cable is important. Cheaper cables may have insufficient or unequal twist in the pairs, causing noise to be picked up or the component video signals to be misaligned in time. Mark each pair of cables with their destination and mark each cable of a pair A or B.

   b. Install an RJ-45 plug on each end, using EIA-568B pairing (pins 1-2, 3-6, 4-5, 7-8). Check each cable with a network cable tester.

   c. Plug the pairs of cables into the RJ-45 jacks on the Model 1170s and/or Model 1176s. Plug cables A and B into their respective jacks A and B.

   d. Plug an A/B pair of cables into each Model 9878 Wallplate.

   e. Adjust the Cable Length Compensation control on each Wallplate according to the distance of that unit from the head end. Set the dial to the nearest number of hundreds of feet of cable distance.

      NOTE: Do not permanently mount the Wallplates until final testing is completed.

7. **Initial Testing.** Connect the furnished power supplies to their respective units, and plug the power supplies into a plug strip so that all units can be turned on at one time.

   a. Check that the power indicators on the Model 1166, all stacked units and all installed Wallplates are illuminated.

   b. The opening screen on the Model 1166 display will indicate that the unit is powered and how many Model 1176s have been recognized (Model 1170, if used, is not indicated by the Model 1166). That number is zero if the Model 1166 is used alone.

   c. Apply power to all associated equipment. Touch the input selection keys to manually select sources to verify video and audio signal integrity. *NOTE! DVI switching may take a few seconds due to HDCP handshaking.*

   d. If both component and DVI are connected to the television monitor, test both of the monitor's signal paths by switching its inputs. While viewing the TV's DVI input, check that any component video output sources are also displayed in DVI.

8. **Real-time Setup.** If the setups were not downloaded from the Flash Card (page 8), perform the desired setups. To enter Setup Mode, press and hold the knob, and touch the Menu key. Use the navigation knob

to point to the desired option, press the knob to select it, then follow the instructions on the screen. (Options shown below.)

Setup Option	Comments
Select Normal Screen	Choose Residential for Model 1166 used alone or if access to Model 1176 output selections is not needed, Professional for systems requiring frequent access to Model 1176 output assignments.
Select Remote Sources	Not an initial option—used by the operator in Residential mode to assign Model 1176 outputs.
Name the Sources	Assign default, custom and custom long names to each source.
Learn IR Codes	Teach the Model 1166 which IR codes of associated equipment to follow.
Assign Remote Zones	Divide the array of Model 1176 Wallplate outputs into geographic or functional zones.
Save/Load File	Save current setup configuration to card, scan and choose firmware upgrades from card or import setup data saved from an 1166 or saved from the 1166PC application.
Contact Installer	The installer may enter contact information for the owner's convenience.

9. **IR Remote Control.** The Model 1166 can select sources by three different remote control methods: native remote (Model 1105), source remotes (learned) or RS-232 commands. Learned infrared control offers versatility and precision in source selection with a small investment of time to teach the IR commands to the 1166. Some remote controls can load IR codes from a PC after the codes have been downloaded from the remote control company's website. Following are steps to learn IR codes from source remotes.
    a. If you are using standard handheld remote controls, ensure correct operation by eliminating sources of light pollution such as direct sunlight, fluorescent light, etc.
    b. If you are using a comprehensive IR control system, provide a contact emitter or blaster from the infrared system to stimulate the Model 1166's optical IR receiver, or patch the IR signal directly to the IR input port on the rear panel using a 3.5mm cable (see page 7).
    c. Use the Learn IR Codes setup screen to teach the Model 1166 one "key" code for each source product. For example, for a media player, let the Model 1166 learn its "play" key, then, when that key is pressed to start the player, the Model 1166 will immediately select its output. On a set top box, one might pick the "enter" key to prompt the Model 1166 to switch to that source when a channel has been selected on it.
    d. Audio Authority Model 1108 (sold separately) addresses the problem of controlling multiple identical sources from a Wallplate. The Model 1108, when used with individual IR emitters attached to the sources, routes the IR command from a Wallplate to the appropriate source only.
    e. Comprehensive IR controllers, such as the Pronto™, can learn the Model 1166's IR codes along with the codes of the sources and can output a macro containing source controls and Model 1166 selection controls. Follow the manufacturers instructions to each such a controller numeric 1 through 6 from the Model 1105, as needed.
10. **RS-232 Control.** System controllers with RS-232 output can be connected to the serial port on the Model 1166. To program such controllers, request "The Model 1166 Serial Protocol" from Audio Authority at 800-322-8346.

11. **Remote Wallplates.**
    a. Plug an Infrared Control Receiver into the 3.5mm jack on each Wallplate used with a Model 1176 that is to have source selection capability.
    b. Infrared commands returned from a Wallplate to Model 1176 immediately select the source to be played on that Wallplate.
    c. IR commands returned from a Wallplate to Model 1176 that originate from other remote controls do not control the switching system, but are repeated through the IR Output jack on the Model 1166. If an infrared control system is in place, and remote sensing of IR inputs from Wallplate locations is

desired, patch the IR Output jack to an input of the IR control system.

d. All IR commands returned from a Wallplate to Model 1170 are only repeated through the IR Output jack and perform no function within the switching system.

Troubleshooting

If at any time the 1156 or 1166 system fails to respond as expected, use the outline below to find the cause or narrow the possibilities. If your question is not answered in this guide, call Audio Authority Technical Support at **800-322-8346**.

Symptom	Possible Cause(s)
No DVI video on monitor	Non-HDCP video monitor*; Passively adapted HDMI source and monitor** (use Model 1312 to convert source signals)
DVI picture has artifacts	Cable(s) too long or poor quality
DVI switching is slow	Normal result of HDCP handshaking
Switches to undesired input with Auto off	Wrong IR code stored
Switches to undesired input in Auto mode	Recording source giving false switch criteria
Does not autoselect a certain source	Digital or analog audio not available or not connected; A source is recording
Does not respond to IR command	Wrong IR code learned or IR remote cannot be learned
Does not respond to RS-232	1166 commands not stored in remote control system
Does not repeat a certain IR remote	Some IR remotes cannot be processed; IR Output not connected to IR system
Model 1176 is not recognized	Bus cable loose, 1176 incorrectly addressed, or power supply not connected

* The 1166 will not correct source/display incompatible conditions that may occur when the sources or display are not HDCP compliant.

**The 1166 may not function properly with a system including both an HDMI source and an HDMI display without active conversion using Model 1311 and 1312 (see page 5).

Performing an Operating System Upgrade from a Flash Card

1. Place flash card containing the latest operating system data into card slot at rear of 1156/66.
2. Press encoder knob and touch “menu” key. Setup screen appears. Scroll and choose “Save/Load File”.
3. Scroll and choose “Upgrade 1156/66 operating system.” Upgrade screen appears.
4. Touch in order 2, 3, 6 then (softkey) “Load”.
5. Scroll and select the latest operating system (e.g. April 27th, 2006 1.02/1.01).

After you select the version you want the screen displays “Downloading...” and “Loading file...” This step takes up to a minute, and then the screen displays “Completed”. At this point the unit reboots twice.

Residential Operation

The Model 1166 allows you to select one of up to six video/audio sources to play through your home theater system. In addition, if you have a whole-house component video distribution system using one or more Model 1176s, the source being displayed at each Wallplate can be controlled by the Model 1166 and, if the Wallplate location is equipped with an infrared receiver, the source can be selected using an infrared remote control in the room where the Wallplate is located. If your whole-house video distribution system uses Model 1170, all Wallplate locations automatically display the same program content as the Main Output of the Model 1166. Model 9878 Wallplates provide component video, digital audio, and stereo analog audio signal connections.

In Residential mode, the normal screen displays the custom long name of the selected source, the short names of all six sources, which of these sources is currently selected to the Main Output (highlighted short name), which sources are currently active (overscored short name), and whether Autoselect™ is On or Off. Please ask your professional installer whether you should use AutoSelect™ or another method of source selection.

The Model 1105 Infrared Remote Control is used to control the Model 1166 and other brands or types of remote control may have been enabled for this purpose as well.

Key Sequence Examples

The key sequences for several different operations using front panel controls or IR remote control are shown below. **To navigate using the front panel controls in the Select Remote Sources screen, rotate the knob to move the cursor, press the knob to change directions (up/down vs. left/right).**

1105 Remote Control

- Changing the source on the Main Output: Press the desired number key or press the Scan keys.
- Changing the source on a remote Wallplate: Press Menu; press Enter; press Unit; use the up/down/left/right keys or Alpha key/Number key to highlight the Wallplate; press the Source key; press the Number key for the desired source.
- Changing the source for a zone of Wallplates: Press Menu; press Enter; press Zone (if necessary); use the up/down or left/right keys to show the desired zone; touch the Number key for the desired source.
- Changing the source for all Wallplates: Press Menu; press Enter; press All; press the Number key for the desired source. (Press Enter to undo.)
- Assign a Wallplate to zone 3: Press Menu; press the down key and select Assign Remote Zones by pressing Enter; press 3 (zone 1 is initially selcted); navigate to the Wallplate you wish to assign using up/down and left/right keys, or by pressing an alpha key and a number key; press 3 again.

1166 Front Panel Controls

- Changing the source on the Main Output: Touch the desired Number key or turn the knob.
- Changing the source on a remote Wallplate: While pressing the knob, touch Menu; press the knob again; turn the knob to navigate, press the knob to change directions; when the desired Wallplate is highlighted, touch the desired Number key.
- Changing the source for a zone of Wallplates: Follow procedure for a single Wallplate above, but navigate to and activate Zone mode, then turn the knob to select the zone number desired; touch the desired Number key.
- Changing the source for all Wallplates: Follow procedure for a single Wallplate above, but navigate to and activate All mode; touch the desired Number key. (Press the knob to undo.)

Professional Operation

The Professional mode is designed to allow easy control of 1176 Wallplate outputs from the Model 1166. Model 9878 Wallplates provide component video, digital audio, and stereo analog audio signal connections. The Professional "default screen" is shown below. It displays the source currently assigned to each Wallplate or zone and allows you to choose a new source for each Wallplate or zone. If the Wallplate location is equipped with an infrared receiver, the source can also be selected using an infrared remote control in the area where the Wallplate is located. If your distribution system uses only Model 1170 use Residential Mode, because all Wallplate locations automatically display the same program content as the main component video output of the Model 1166.

(PRO) SELECT OUTPUTS: Press and turn knob
to navigate, touch Source key to select.
1 2 3 4 5 6
A DVR DVD GAME CABL SAT2 SAT1 >UNIT
B SAT1 SAT2 CABL GAME DVD DVR ZON2
C DVR DVD GAME CABL SAT2 SAT1 ALL
SAT1 SAT2 CABL GAME DVD DVR MAIN

In Professional mode, the normal screen displays the array of remote outputs (if Model 1176s are present), virtual Main, All and Zone keys, the six short names of the sources, which of these sources is currently selected to the Main Output (highlighted short name), which sources are currently active (overscored short name), and whether Autoselect™ is On or Off. Please ask your professional installer whether you should use AutoSelect™ or another method of source selection.

The Model 1105 Infrared Remote Control is used to control the Model 1166 and other brands or types of remote control may have been enabled for this purpose as well.

Key Sequence Examples

The key sequences for several different operations using front panel controls or IR remote control are shown below. **To navigate using the front panel controls, rotate the knob to move the cursor, press the knob to change directions, (up/down vs. left/right).**

1105 Remote Control

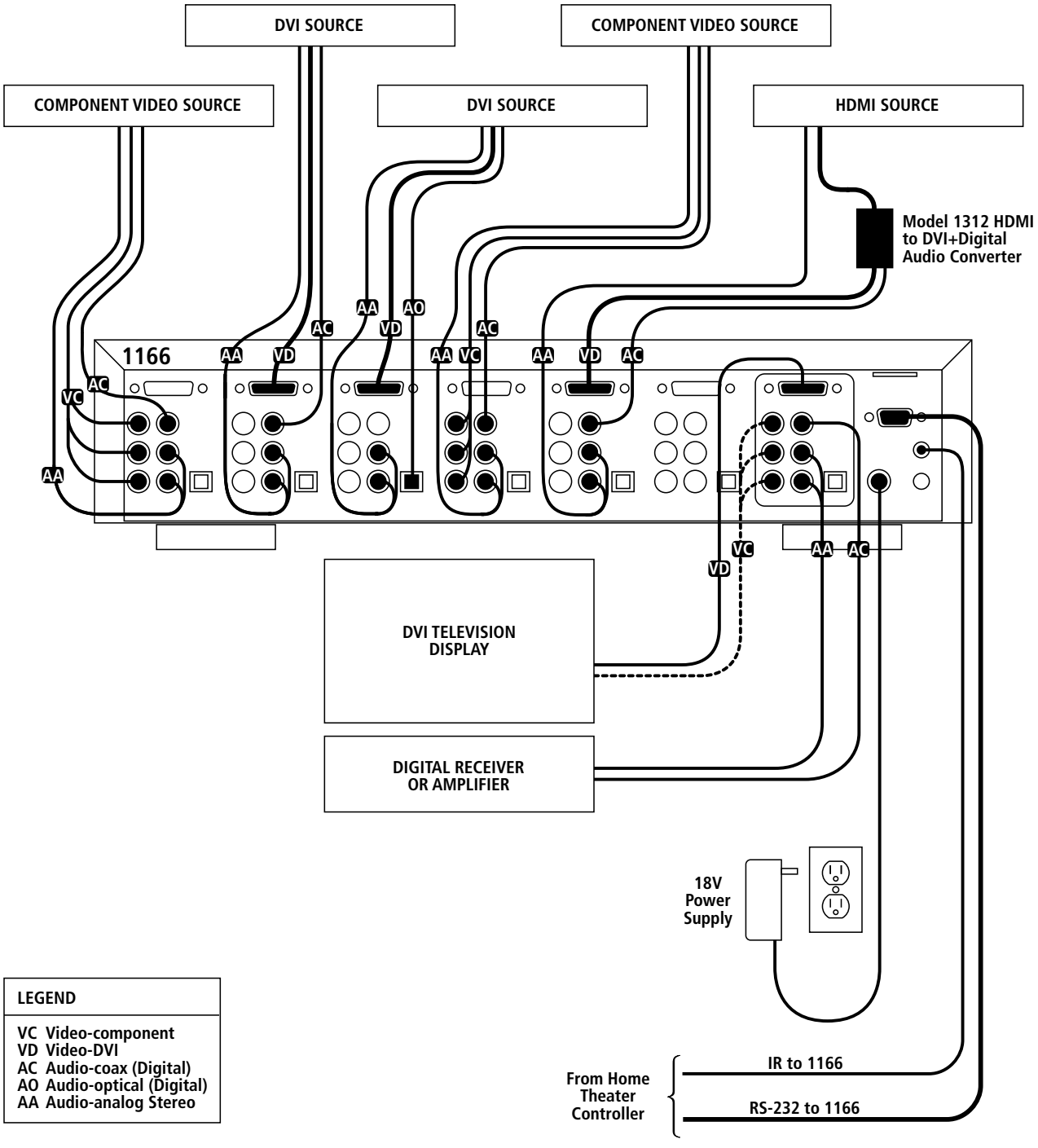
- Changing the source on the Main Output: Double-press the Source key; press the desired number key or use the Scan keys.
- Changing the source on a remote Wallplate: Press Unit; use the up/down/left/right keys or Alpha key/ Number key to highlight the Wallplate; press the Source key; press the Number key for the desired source.
- Changing the source for a zone of Wallplates: Press Zone; press Number for zone or use the up/down or left/right keys to show the desired zone; touch the Soruce key; touch the Number key for the desired source.
- Changing the source for all Wallplates: Press All; press the Number key for the desired source input. (Press Enter to undo.)
- Assign a Wallplate to zone 3: Press Menu; press the down key and select Assign Remote Zones by pressing Enter; press 3 (zone 1 is initially selcted); navigate to the Wallplate you wish to assign using up/down and left/right keys, or by pressing an alpha key and a number key; press 3 again.

1166 Front Panel Controls

- Changing the source on the Main Output: Use the knob to navigate to Main and press to activate; touch the desired Number key or turn the knob.
- Changing the source on a remote Wallplate: If unit mode is not active, press the knob to activate it; use the knob to highlight the desired Wallplate; touch the desired Number key.
- Changing the source for a zone of Wallplates: If zone mode is not active, use the knob to activate it; turn the knob to show the desired zone; touch the desired Number key.
- Changing the source for all Wallplates: Use the knob to navigate to All; press the knob; touch the desired Number key. (Press the knob to undo.)

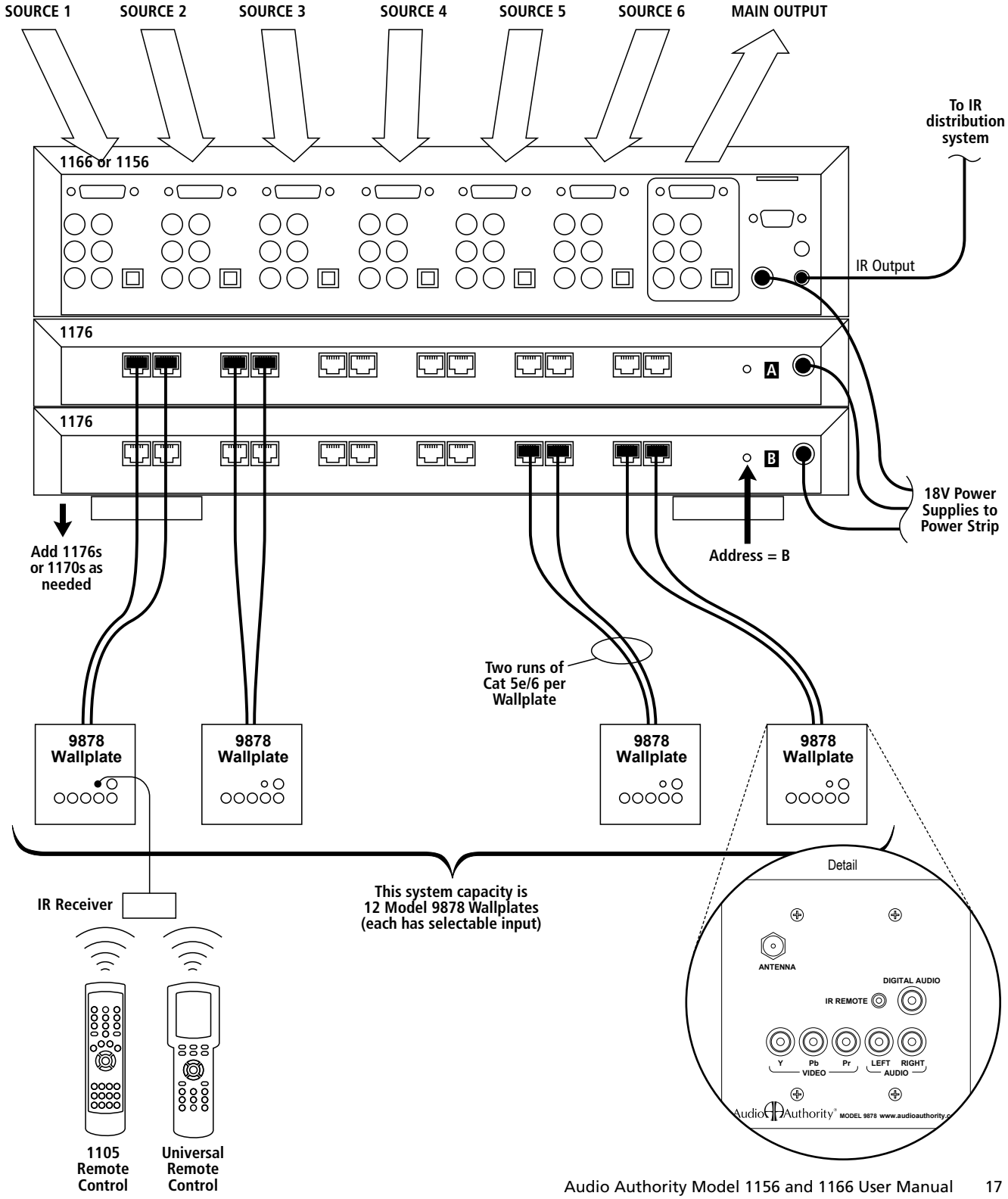
1166 Source Input and Main Output Connections

Up to six sources may be connected to the Model 1166 or 1156 AutoSelector (1166 shown below). An HDMI source requires a model 1312 HDMI to DVI adapter. All available connections should be made, with the exception of digital audio; only one of the two *digital audio* connections should be made for each source. (See page 11 for instructions.)



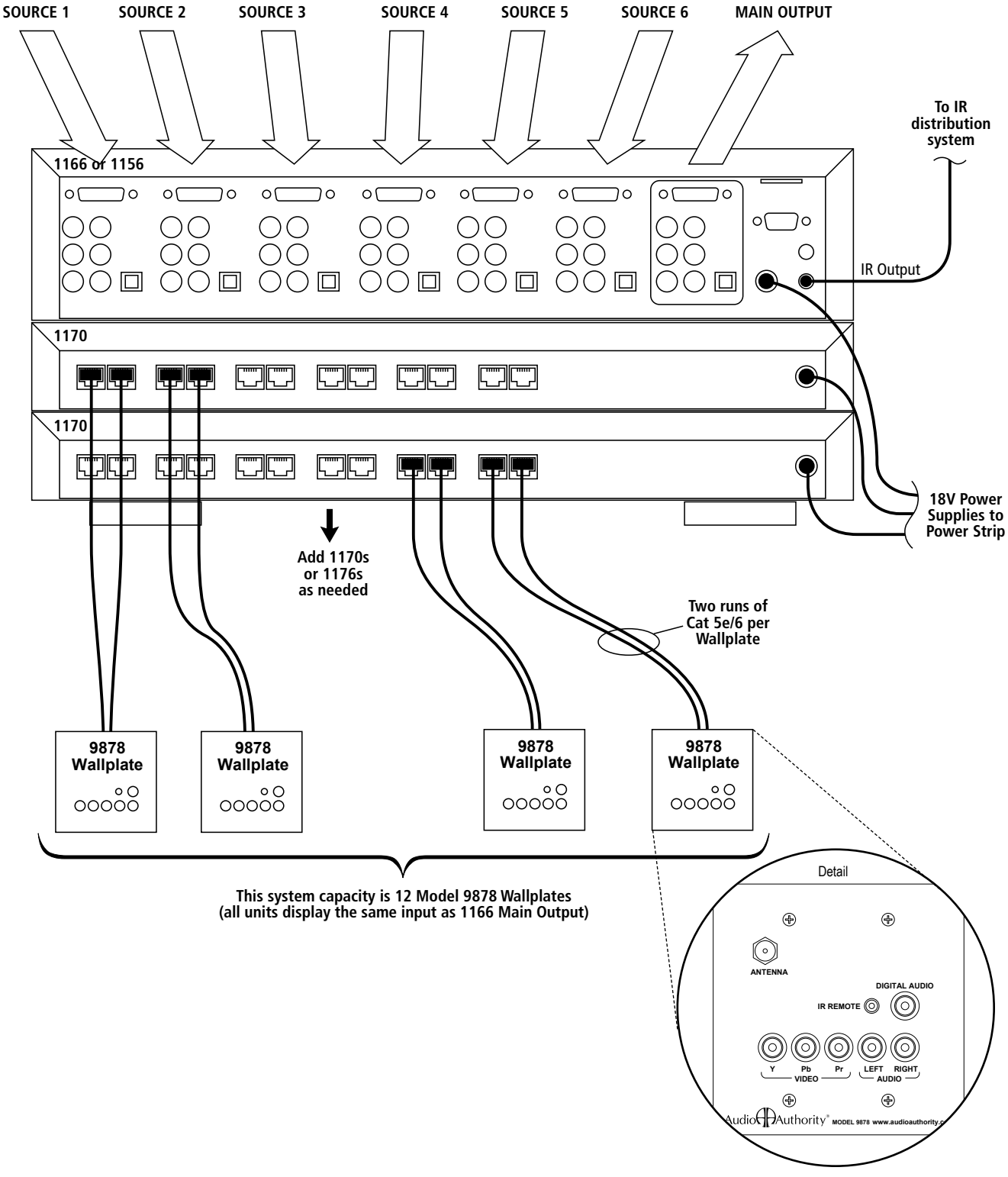
1176 Matrix Router Connections

Multiple Wallplates may be connected to a Model 1166 with Model 1176 Matrix Routers. A single 1176 has a capacity of six Wallplates. IR signals sent over Cat 5 through the 1176 are then sent through the 1166 and retransmitted on the IR ouput jack. IR signals from the 1105 (or other enabled remotes) are interpreted by the 1176 and affect only the output of the Wallplate originating the IR. If the system has multiple sources sharing the same IR code, a Model 1108 Multi-source IR Router should be used.



1170 MultiDriver Expander Connections

Multiple Wallplates may be connected to a Model 1166 with Model 1170 MultiDrivers. A single 1170 has a capacity of six Wallplates. IR signals sent over Cat 5 and through to the 1170 are then sent through the 1166 and retransmitted on the IR ouput jack. 1105 IR signals from Wallplates connected through the 1170 do not control switching.



Limited Warranty

Should any consumer use product manufactured by Audio Authority fail due to defects in materials or workmanship within one year from the date of the original sale to the end-user, Audio Authority guarantees that we will replace the defective product at no cost. Freight charges for the replacement unit will be paid by Audio Authority (Ground service only). A copy of the invoice from an Authorized Reseller showing the item number and date of purchase (proof-of-purchase) must be submitted with the defective unit to constitute a valid in-warranty claim.

Units that fail after the warranty period has expired may be returned to the factory for repair at a nominal charge, if not damaged beyond the point of repair. All freight charges for out-of-warranty returns for repair are the responsibility of the customer. Units returned for repair must have a Return Authorization Number assigned by the factory.

This is a limited warranty and is not applicable for products which, in our opinion, have been damaged, altered, abused, misused, or improperly installed. Audio Authority makes no other warranties either expressed or implied, including limitation warranties as to merchantability or fitness for a particular purpose. Additionally, there are no allowances or credits available for service work or installation performed in the field by the end user.

Specifications

Subject to change without notice.

Video Parameters

Video Parameter	
Signal Type	Component+DVI
Video Formats	480i/p, 720p, 1080i/p*, 576i/p
Input/Output Impedance	75 ohms
Input Ground Isolation	No
Gain	1
Gain Accuracy	2%
3dB Bandwidth	100MHz
Input Coupling	AC
S/N Ratio	62dB
Max Gain/Equalization	1

Audio Parameters

Format	Digital/Analog
Digital Audio Input/Output Type	Optical+Coaxial In/Out
Input Impedance	75 ohms/50K ohms
Min Load Impedance	75 ohms/10K ohms
Multi-channel Digital	Yes
Frequency Response	10-50KHz
S/N Ratio	75dB
THD+Noise	.025%
Crosstalk	75dB

Power

DC Input Connector	5.5 X 2.1mm
DC Input/Polarity	18V/Center positive
Power Supply	571-015

*1080p resolution available only on the component video output.

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Custom Installer _____

Telephone Number _____

Registration Password _____

(This password is only for registration, not for password operations in your 1166 or 1156.)

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